EXHIBIT E: Mouse FucT-VII gene, from phage 104, annotated with DNA sequencing primers used to sequence the phage, with start and stop codons, and with relevant restriction sites. Mouse genomic DNA sequence displayed from position 25,277,900 to 25,282,400 containing the coding sequence for the mouse FucT-VII gene

	CTGGTTGGAC GACCAACCTG			60
	ATCCTGGAAC TAGGACCTTG			120
	GAGGTGAGGT CTCCACTCCA			180
	CCCCCCACCC GGGGGGTGGG			240
	CAGTTGGCAA GTCAACCGTT			300
	CCAAACTGAG GGTTTGACTC			360
	TCCTTCAAAT AGGAAGTTTA			420
	CCCCAGCCAG GGGGTCGGTC	CAAACAGGAA		480
	TGGCCCCAAG ACCGGGGTTC			540
	TGACACGAGA ACTGTGCTCT			600
ACACTGAGAG	CTGGGGTCAC GACCCCAGTG CORI			660
	ATATCACTAT TATAGTGATA			720
	CACCTCGTGC GTGGAGCACG			780
TACCGTGGGT	TACCCTCCCT <b>ATG</b> GGAGGGA			840
	CTGCGAGGGG GACGCTCCCC		CACGGTTACT	900
	TGGCCATGGC ACCGGTACCG	 		 960
	GACTATGGCT CTGATACCGA 986B			1020
	TCGGGTCGGG AGCCCAGCCC			1080
	GCCAACACTG CGGTTGTGAC		AGTCTG GAGC	1140

## **EXHIBIT E**

	CCGGACGATA	TCTCCATACA AGAGGTATGT				1200
	TGGGGATGGA				GAAGCTCTGA	1260
		TACCCTGGTC ATGGGACCAG			CCAGATTGGA GGTCTAACCT	1320
	TCTACCTCTC	GAACCTTGGC CTTGGAAC <b>CG</b> 511B			ACCAGAGCCT TGGTCTCGGA	1380
GCTGGAGGGG		GCCTGGACCT	GAGGCTGGGA		TGTTTCTGGA	1440
CGACCTCCCC	${\tt TTAGTTTGTT}$	CGGACCTGGA	CTCCGACCCT	GATCGAAAGG	ACAAAGACCT	
Start o						946B
		CACCAGCCTG				1500
CACCTACGGT	TGGGGGACGG	GTGGTCGGAC	GGACAGGTGC	GGTCCCTGTG	TGTCTGAGGA	
тссстттсса	GACTGGAAAG	CCCCCTCCTG	GGAGAGCAGG	AAGGAAGCAA	CCTGCAACTC	1560
		GGGGGAGGAC				1300
715B	2931B	000001100110	0010100100		331133113113	
TTCCAGCCCT	GGACCTTGGG	CTGAACCTAC	<b>AG</b> TTCAAGGT	TTGTATGCTC	ACAGGTCTTG	1620
AAGGTCGGGA	CCTGGAACC C	GACTTGGATG	TCAAGTTCCA	AACATACGAG	TGTCCAGAAC	
			2932B		PstI	
		CCAGGGCACC			CA <b>CTGCAG</b> GT	1680
CGTCCCTTTC	TATTCTTAGG	GGTCCCGTGG	GAGGGGGGC	GGGGGGTCAG	GT <b>GACGTC</b> CA	
7 CCTCCTCCC	TOTOCOCOTO	AGGGCAAGTG		7 TO 7 C 7 C T C T	СУЩССССССС	1740
		TCCCGTTCAC				1/40
100110011000	11011000011110	10000110110	8661A	1110101011011	01110000000	
TTTTCTGAGG	ATGACAATTC	TGAGAACAAG	GCATTTTTCT	AGAGGTGGCA	GAACAGCATT	1800
AAAAGACTCC	TACTGTTAAG	ACTCTTGTTC	CGTAAAAAGA	TCTCCACCGT	CTTGTCGTAA	
		GGAGCACAGG				1860
AACACTACGG	GCTCCTAGAC	CCTCGTGTCC	AGGTCGAATT 911B	ACTCCCTAAC	CTCCTTCACC	
CTATCATCAT	та са сеса се	GGCCTCTGTG		7 7 7 7 TOO 7 OT	TGCTCTCTTT	1920
		CCGGAGACAC				1920
CAIAGIAGIA	AIGICCCICC	CCGGAGACAC	COGAGGACCC	IIIIACGICA	9077	
GGGTGGCCTG	GGGTTGTGTG	GTGGGCAGAG	GACGGAGGTG	CTCATTGGGG	GAAGGGATCA	1980
		CACCCGTCTC				
					GGCCTCCTCC	2040
GAAGACGAGT	CTCACGAGCG	TTCCCGGAAA	GGAAAAGGAC			
maamaamam	aamaammama	OMORMO CECC	mammamaa.	9076	3445B	0100
		CTCTTCCTCC GAGAAGGAGG				2100
AADADDADDA	DADDAADDADD	DDADDAADAD	AGAAAGAGGT	ATACGGATCG	ACCAGTAAAG	

## **EXHIBIT E**

					8953	
	CATGGTTGGG GTACCAACCC					2160
	<b>G</b> AAGACGGGG CTTCTGCCCC		TCCCAACCTA			2220
	GGCGGGGCAG CCGCCCCGTC			TCCTCACCTT		2280
	AGAGGTTGAG TCTCCAACTC					2340
	ATTTGAAAAT TAAACTTTTA		$\mathbb{T} \mathbb{G} \mathbb{T} \mathbb{G} \mathbf{A} \mathbb{C} \mathbf{A} \mathbf{A} \mathbf{T}$			2400
	GAGTGCCTGG CTCACGGACC	CCCTTAAGCA				2460
	GCCTAGGGTG CGGATCCCAC	ACAGGGCCTC	TCCTTTTTTT		TTCAGGGTAC	2520
	GGAGGCTGCG CCTCCGACGC					2580
	TCTGGCTGTG AGACCGACAC 8875					2640
CTCACCATCC	TTATCTGGCA AATAGACCGT					2700
ACCTGCACTC	GCTATGGCAT CGATACCGTA					2760
	CTGTGGTCTT GACACCAGAA				TCTCCTACCC	2820
	GGCCACACGG CCGGTGTGCC	ACAG <b>CCTTGG</b>				2880
	TCCATCGCTT AGGTAGCGAA 8850				TCGGCGTGAT AGCCGCACTA	2940
	TTGTACCCTA AACATGGGAT					3000
	GCAGGATGGC CGTCCTACCG					3060
	ACCGGCAGCT TGGCCGTCGA					3120
	TATGCGCTAA ATACGCGATT 8714	AACAGACGAC				3180
	ACTCACA <b>GCA</b> TGAGTGTCGT	TCGGGACTAC		TCAA <b>GACCGC</b>		3240
	CTGTACCCGT GACATGGGCA			CCACCTACGA	GGCTTTTGTG	3300
CCACCAGATG	CCTTTGTACA GGAAACATGT			CCCGTGAACT		3360

## **EXHIBIT E**

TGAATGAGAG ACTTACTCTC 8868	AGCAATAGCA	<b>C</b> CGAAGAAAC			3420
 TGGGTGA <b>CTG</b> ACCCACTGAC	GAGGGAGCGC	TTCTGCACCA	AGA <b>CACGGGC</b>		
 GCCAGGTCTA CGGTCCAGAT			$\mathtt{TCCAGGCT}$		8876 3540
 GCTGGATGGG CGACCTACCC			CAAAGAGCTG GTTTCTCGAC	GGCATCCAGG CCGTAGGTCC ECORI	3600
 CCATGGCACT GGTACCGTCA					3660
AAACTGGGCT TTTGACCCGA	GAGATGCCCT				3720
ATTAATGAGG TAATTACTCC					3780
 TGAAGGCTCC ACTTCCGAGG 8954	TACGGGTACC				3840
GCCTCA <b>AGGT</b> CGGAGTTCCA	TGCAGATGCA		G A G A C C C A C G		3900
 GGGGTTGTGG CCCCAACACC		CAGATGATTC GTCTACTAAG	TGGGCTTTTG ACCCGAAAAC		
AAAGAGGCAC TTTCTCCGTG SacI		AACACTGACA	$\underline{\boldsymbol{G}}$ AAATCTCCT	GGTCAAGTCT	
 AGAGCTCACC TCTCGAGTGG					4080
 GTTTCTGTCT CAAAGACAGA					4140
 GTACAGACCT CATGTCTGGA					4200
 CTCAGTGGGA GAGTCACCCT Pst	CCACACAGGA				4260
AGAGCCTG <b>CT</b> TCTCGGAC <b>GA</b>					4320
AGGCTATGAG TCCGATACTC					4380
GGATGGGGTG CCTACCCCAC					4440
AACCATGGCT TTGGTACCGA					4485